

SOV/12-91-2-2/21

On the Theoretical Principles for the Geophysical Division of the
Urals Into Districts

These divisions, of which the largest can be called a physical zone, are subdivided into physical sectors, provinces, subzones, areas and districts. The Urals is taken as a separate country on account of its geographical and geological characteristics, which are distinct from the surrounding plains: the Western Siberian in the East, the Caucasian in the South and the Russian in the West. The Urals covers parts of Europe and Asia, and it includes islands of Novaya Zemlya and Vaygach in the North and Murgodzhary plain in the South. It is 3000 km long from North to South. Its latitudinal zones represent vegetative zones, namely: arctic wastes, tundra, tayga, deciduous forests, steppes and deserts. These zones are of irregular shape, being intersected by mountains, which considerably affect the uniformity of its vegetation. The author then describes

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On the Theoretical Principles for the Geophysical Division of
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the subdivision of these zones into the smaller
units (sectors, districts etc). The names of K.V.
Kuvshinova, I.S. Shchukin, Ya.I. Fel'dman and
N.V. Bashenina are mentioned. There are 1 map,
2 diagrams and 25 Soviet references.

Card 3/3

PROKAYEV, V.I.

Academician A.A. Grigor'ev and his principles of the division of
geographical areas into physico-geographical regions. Izv.Vses.
geog.ob-va 90 no.5:411-423 S-O '58. (MIRA 11:11)
(Grigor'ev, Andrei Aleksandrovich, 1883-) (Physical geography)

3(5)

307/10-59-2-21/29

AUTHOR: Prokayev V.I.

TITLE: On the Jubilee of Academician A.A. Grigor'yev

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geograficheskaya, 1959, Nr 2, pp 146-147 (USSR)

ABSTRACT: On 31 October 1958 a conference of the Learned Council of the Ural branch of the Geograficheskoye Obshchestvo SSSR (Geographic Society of the USSR) was organized in Sverdlovsk to commemorate the 75th birthday of Academician A.A. Grigor'yev. V.I. Prokayev pointed to the geographic research of the scientist in the central Urals, carried out in the twenties, which clarified a number of important problems connected with the genesis of the relief of this mountain section. S.S. Shvarts reported on 'The significance of the ideas of Academician A.A. Grigor'yev in zoological investigations in the subarctic', referring to the scien-

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On the Jubilee of Academician A.A. Grigor'yev

tist's book "Subarktika " ("Subarctic"). B.I. Kolesnikov reported on the work done in the Far East in collaboration with the scientist. A.M. Olonev insisted on the importance of a number of works of A.A. Grigor'yev for the teaching of courses in the regional physical geography of the USSR and continents, at the geographical departments of universities and pedagogical institutes.

Card 2/2

PROKAYEV, V.I.

The Zhiguli Hills. Izv.Vses.geog.ob-va 89 no.3:247-253 My-Je '57.
(MIRA 10:11)

(Zhiguli Hills--Physical geography)

Fesenko, Ye. G. ; Prokapalo, O. I.

"Isomorphous Mixtures of Barium Titanate With Barium Ferrate,"
by Ye. G. Fesenko and O. I. Prokapalo, Scientific Research
Physicomathematical Institute, Rostov State University imeni
V. M. Molotov, Kristallografiya, Vol 1, No 6, Nov/Dec 56, pp
703-707

The structure and dielectrical properties of BaTiO_3 - BaFeO_3 mixtures depending on the BaFeO_3 content were investigated within the range of 0-5% of BaFeO_3 . A qualitative difference between the dielectric properties of mixtures containing less than 3% of BaFeO_3 and mixtures containing more than 3% of BaFeO_3 was found to exist. It was established that at a low Fe content the seignettelectric properties of BaTiO_3 are retained, but the temperatures of the phase transitions are displaced towards lower temperatures. This is contrary to the assumption previously made by the authors that in ideal BaFeO_3 with a perovskite structure a seignettelectric phase transition ought to take place at a lower temperature than in BaTiO_3 . The explanation given is that the quadrivalent Fe ion is apparently unstable, and that Fe enters into the BaTiO_3 lattice in the form of trivalent ions. As a result of this, the Curie point is lowered.

Sum 1287

PROKAPALO, I. S.

"Agrobiological Reasons for Sowing Corn According to the 'Square Hill' Method on the Ukraine Steppe." Cand Agr Sci, Odessa Agricultural Inst, Odessa, 1954. (RZhBiol, No 8, Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)
SO: Sum. No. 556, 24 Jun 55

PROKATOV, Ivan Abramovich

In the Stakhanov manner

Moskva, Glav. red. gorno-toplivnoi lit-ry, 1935. 61 p.

(Stakhanovsko-busyginskaia seriia)

(49-42533)

TN80E.R9P75

ISENZHULOV, A.I.; ZHANDERKIN, A.I.; PROKAZIN, O.A.

Kazakh Argali Merino sheep and the possibilities for the further
improvement of the breed. Trudy Inst. eksp. biol. AN Kazakh. SSR
11:135-151 '65.

(MIRA 18:10)

PROKAZIN, P.A., gornyy inzh. (g.Stalino)

Experiment in the utilization of air leakages for improving gas
content conditions in sections. Ugol' 36 no.5:57-58 My '61.
(Mine gases) (MIRA 14:5)

PROKAZIN, Ye.P.

Organizing a high tar-yielding forest base for the turpentine industry. Gidroliz. i lesokhim. prom. 14 no.7:17-18 '61.

(MIRA 14:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut lesovodstva i melkhanizatsii lesnogo khozyaystva.

(Turpentine)

(Pine)

PROKAZIN, Ye.P., kand.sel'skokhoz.nauk (Moskva)

Leaf fall in the English oak. Priroda 51 no.9:128 S '62.

(Oak)

(Abscission (Botany))

(MIRA 15:9)

PROKAZIN, Ye.P.

Method of large-scale interspecific and intergeneric *grafting*
of conifers under field conditions. *Bet. zhur.* 47 no.7:987-990
J1 '62. (MIRA 15:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut lesovodstva
i mekhanizatsii lesnogo khozyaystva, g. Pushkino Moskovskoy
oblasti.

(Coniferae)

(Grafting)

CATEGORY	: Forestry, Dendrology.	K
ABS. JOUR.	: RZhBiol., No. 4, 1959, No. 15465	
AUTHOR	: Prokazin, Ye. P.	
INST.		
TITLE	: Resin-Producing Forms of the Scotch Pine.	
ORIG. PUB.	: Lesn. kh-vo, 1958, No. 4, 19-21	
ABSTRACT	: By examination of a number of pine stands of Moshovskaya, Tambovskaya, and Kipetskaya Oblasts and Buzulukskiy young pine forest it was established that the Scotch pine possessed a highly individualistic variability for resin-productivity with a fluctuation of 0 - 150 g in the soft resin secretion in trees of uniform diameter in plantations of V age class and more which were gotten by ash tapping. Resin-productive pines were more resistant to fungus	
CARD:	1 / 3	

COUNTRY :
CATEGORY :

ABS. JOUR. : RZhBiol., No. 4, 1959, No. 15465

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : diseases and harmful insects, were more drought-resistant, had a strongly developed root system of a taproot type and more abundant fertility, and bore seed with a higher energy of germination. Increase in air and soil dryness and temperature elevation favored the development of a resin-bearing system in seedlings. Resin-producing seed can be selected in the tapping process and also by the morphological properties of cones, coniferous needles,

CARD: 2/3

COUNTRY :
CATEGORY :

ABS. JOUR. : RZhBiol., No. 4 1959, No. 15465

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : and seed (coniferous needles are shorter, harder,
and have a yellowish-green color, and cones, as
a rule, have a flat cover and a greenish- or
yellowish-gray color, and the seed are black).
-- Ye.N. Sabin

GU'REYEV, K.A., inzh.-energetik; PROKAZOV, M.S., inzh.-energetik;
MOROZOV, B.P., inzh.-energetik

Utilization of condensate in the treatment of printed fabrics.
Tekst. prom. 25 no.12:63 D '65. (MIRA 19:1)

1. Kirzhachskiy shelkovyy kombinat.

PROKAZOVA, A.N.

Public Health Nursing

Role of a public health nurse in protecting the health of children. Med.sestra, no.9,1952.

MONTHLY LIST OF RUSSIAN ACCESSIONS, LIBRARY OF CONGRESS, DECEMBER 1952. UNCLASSIFIED.

GRUMOV, Aleksandr Petrovich; PROKAZOVA, K.V., red.

[Forensic medical expert's on the degree of the
gravity of bodily lesions; a methodological manual
for students] Sudebnomeditsinskaja ekspertiza stepeni
tiazhesti telesnykh povrezhdenii; metodicheskoe posobie
dlia studentov. Moskva, Mosk. med. in-t, 1965. 32 p.
(MIRA 18:12)

KUZ'VIN, Mikhail Kuz'mich; LOKANOVA, K.V., red.

[Lectures on the history of Russian medicine] lektsii po istorii russkoi meditsiny. Moskva, Pervyi MOIKI im. I.M. Sechenova. Lectures 4,5 [Russian medicine in the Patriotic War of 1812] Meditsina Rossii v Otechestvennuu voinu 1812 goda. 1964. 73 p. (MIRA 17:7)

PROKAZOVA, L.T., inzh.

Experience in the operation of a photoelectric relay. Prom.energ.
19 no.7:16 J1 '64. (MIRA 18:1)

VAVER, V.A.; PROKAZOVA, N.V.; BERGEL'SON, L.D.

New types of neutral lipids. Izv.AN SSSR.Ser.khim. no.2:392 2
'64. (MIRA 17:3)

1. Institut khimii prirodnnykh soyedineniy AN SSSR.

VAVER, V.A.; PROKAZOVA, N.V.; USHAKOV, A.M.; POPKOVA, G.A.; BERGELSON, L.D.

Chemistry of lipids. Report No.5. Dihydric alcohol derivatives as
new kinds of neutral lipids. Khim. prirod. soed. no.6:401-405 1965.
(MIRA 19:1)

1. Institut khimii prirodnikh soyedineniy AN SSSR. Submitted
June 21, 1965.

BERGEL'SON, L.D.; VAVER, V.A.; PROKAZOVA, N.V.

New types of neutral lipids. Dokl. AN SSSR 157 no.1:122-124
Jl '64 (MIRA 17:8)

1. Institut khimii prirodnikh sovedineniy AN SSSR. Predstavleno
akademikom M.M. Shemyakinym.

PROKAZYUK, O.P., inzh.

Biennial plantings for track protection. Put'i put.khoz. 5 no.5:28-29
my '61. (MIRA 14:6)

1. Stantisiya Revne, L'vovskoy dorogi.
(Windbreaks, shelterbelts, etc.)

L 8827-66 EWT(m)/EWP(j) DIAAP RM

ACC NR: AP6001467

SOURCE CODE: CE/0025/65/008/007/0425/0429

AUTHOR: Stolz, W.; Prokert, K.

ORG: Institute for the Application of Radioactive Isotopes, Technical University, Dresden (Institut für Anwendung radioaktiver Isotope der Technischen Universität)

TITLE: Chemical dosimetry of ionizing radiation with the leuco compounds of some triphenylmethane dyes in polystyrene

SOURCE: Kernenergie, v. 8, no. 7, 1965, 425-429

TOPIC TAGS: radiation dosimetry, ionizing radiation, dye chemical, reaction mechanism, radiation dosimeter, polystyrene, radiation chemistry

ABSTRACT: The possibility of chemical dosimetry of gamma and beta radiation with the leuco compounds of benaurin, fuchsin, Doebner's violet, methyl violet, crystal violet, and malachite green in polystyrene was studied. The dosimeters have the form of a thin polystyrene foil, in which the leuco compound of one of the dyes mentioned together with a heavy volatile halogen hydrogenic carbon is embedded. By the irradiation, amounts of the corresponding triphenylmethane dye proportional to the absorbed dose are formed in the foils. The dose rate and temperature response as well as the reproducibility of the dosimeter reactions were investigated. The reaction mechanism is discussed. The authors sincerely thank Mrs. Prof. Dr.-Engr. L. Herforth for the encouragement on this analysis and assistant Miss G. Grahl for her assiduous

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L 8827-66

ACC NR: AP6001167

cooperation. Orig. art. has: 4 figures, 3 tables, 3 formulas. [NA]

SUB CODE: 07, 11 / SUBM DATE: 08Mar65 / ORIG REF: 003 / OTH REF: 003

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PROKES, A.

SOURCE: Engineers' Digest, September, 1957, Vol. XXII, Nr 9, pp 387-388.
AUTHOR: PROKES, A.
TITLE: The Erosive Effects of Pulsed Electrical Discharges with weak
Currents
ORIGINAL SOURCE: Czechoslovak Journal of Physics, Vol 7, Nr 3, pp 320-326, 1956,
and 378f, 13 illustrations.

Kelle
MT

PROKES ANTONIN

CZECHOSLOVAKIA/Electronics - Gas Discharges and Gas Discharging Instruments.

H-7

Abs Jour : Ref Zhur - Fizika, No 4, 1958, No 8710

Author : Prokes Antonin
Inst : Karlovy University, Prague, Czechoslovakia
Title : A Study of the Erosive Effects of Pulsed Electric Discharges for Weak Currents

Orig Pub : Ceskosl. casop. fys., 1957, 7, No 3, 283-287

Abstract : A study was made of the erosive effect of pulsed electric discharges on steel at currents of 50 to 100 microamperes, voltages of 1 to 2 kv, and pulse durations of 1 to 10 microseconds. The possibility of changing the polarity of the electrodes during the discharge was completely eliminated by using a generator of positive rectangular voltage pulses (instead of the customarily employed discharge of capacitors). A considerable difference in the erosive action of the discharge on the anode and on the cathode was established. A simple regular crater was formed on the anode, and the shape

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CZECHOSLOVAKIA/Electronics - Instruments

Abs Jour : Ref Zhur - Fizika, No 4, 1958, No 8710

of the crater confirms that a portion of the material is removed from the electrode in the liquid phase. The results obtained are in good agreement with the prevailing ideas concerning the mechanism of electro-erosion. Bibliography, 15 titles.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343120004-3

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PROKES ANTONIN

CZECHOSLOVAKIA/Electronics - Gas Discharges and Gas Discharging
Instruments

H-7

Abs Jour : Ref Zhur - Fizika, No 4, 1958, No 8711

Author : Prokes Antonin

Inst : Not Given

Title : A Study of the Erosive Effects of Pulsed Electric Discharges
for Weak Currents

Orig Pub : Chekhosl. fiz. zh., 1957, 7, No 3, 320-326

Abstract : See also Abstract 8710

Card : 1/1

PROKES, A.

Calculation of polygons with the aid of four-digit tables. p. 13. (Geodetický
A Kartografický Obzor, Vol. 3, No. 1, Jan 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol 6, No. 8, Aug 1957, Uncl

PROKES, A.

A study on the erosive effects of lowcurrent impulsive electric discharges.

P. 283, (Ceskoslovensky Casopis Pro Fysiku) Vol. 7, no.3, 1957, Praha, Czechoslovakia

SO: Monthly Index of East European Acessions (EEAI) Vol. 6, No. 11 November 1957

PROKES, Antonin, inz.

Vernier scale for a double circle theodolite. Geod kart
obzor 2 no.3:51-54 Mr '56.

1. Oblastni ustav geodesie a kartografie, Bratislava.

PROKES, A.

PROKES, A. Prismatic mensurative device and indicator of verticality for horizontal bases in long-distance measurements. p. 38.

Vol. 3, no. 2, Feb. 1957
GEOMETICKY A KAP OCEANICKY GEOR
SCIENCE
Czechoslovakia

So: East European Accession, Vol. 6, No. 5, May 1957

PROCES. A.

PROCES. A.

Portable signal for detailed triangulation (greater density in geodetic
surveying). p. 21. (Zeměměřičství. Praha. Vol. 4, no. 2, Feb. 1954)

SO: Monthly List of ^{East} European Association (SEAL), Lb, Vol. 4, no. 6,
June 1955, Encl.

PROKES, B., dr; VOJACEK, T.; VLASAK, V., inz.

New waterproof materials. Stavivo 40 no.12:418 D '62.

1. Stavebni izolace, n.p. Praha.

PROKES, Bohumir, dr.; VOJACEK, Tomas

PVC waterproofing in the German Federal Republic and Czechoslovakia.
Poz stavby 11 no.4:225-226 '63.

1. Stavebni izolace Praha.

HYNIE, I.; PROKES, J.

The oscillopolarographic determination of Meprobamate in biological material. Chem zvesti 18 no.5/6:425-428 '64.

1. Laboratory of Toxicology and Forensic Chemistry, Prague.

PROKES, J., inz., C.Sc.

Use of small-capacity hydraulic accumulators. Strojirenstvi
13 no.3:181-186 Mr '63.

1. Ceske vysoke uceni technicke, Praha.

Z/032/63/013/003/001/006
E073/E135

AUTHOR: Prokeš, J. Engineer

TITLE: Application of small-volume hydraulic^o storage vessels

PERIODICAL: Strojirenství, v.13, no.3, 1963, 181-186

TEXT: In the hydraulic storage vessels under consideration, which usually are of about 60 litres capacity (up to 500 litres in exceptional cases), is contained a gas volume which is separated from the liquid either by a membrane or piston. Their function can be: a) replacement of fluid losses of the hydraulic system; b) covering short-duration increases or c) equalization of non-uniformities in the rate of supply of fluid; d) absorption of excess energy; e) function as a pneumohydraulic spring. Formulas are derived for calculating the required capacity of the storage vessel: for a system containing several hydraulic motors taking into consideration the probable number of simultaneously operating motors as well as for a system in which the storage vessel is required to absorb the excess energy or is required to operate as a pneumohydraulic elastic system (spring). Formulas are also derived for calculating the optimal storage-tank capacity from the

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Application of small-volume ...

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E073/E135

point of view of efficiency, both for the case of systems with a definite time cycle and systems where the hydraulic motors operate at random. If there is a pressure drop between the storage vessel and the hydraulic motor, a change in the load will first manifest itself in a change in the piston velocity which characterizes the second-order "flexibility" of the system. Thereby the change in velocity for a given change of load will be the smaller, the higher the pressure drop between the storage vessel and the motor. The second-order flexibility is variable and depends on the pressure drop in the storage vessel. The derived equations indicate that storage vessels can also be used for accurate sliding mechanisms, provided the pressure drop in the storage vessel on tapping an appropriate volume of fluid is small. However, it is necessary to verify the efficiency of such a mechanism as compared to one operating with a directly-driven pump. There are 12 figures.

ASSOCIATION: ČVUT, Praha (ČVUT, Prague)

Card 2/2

HYNIE, I.; PROKES, J.; KACL, K.

Oscillopolarographic determination of meprobamate in the urine.
Cas. lek. cesk. 103 no.15:412-414 10 Ap'64.

1. Laborator pro toxicologii a soudni chemii fakulty vseobec-
neho lekarstvi KU v Praze; prednosta: prof.dr. K.Kacl.

*

PRAK S, J.

Description and checking of hydraulic schemes.

p. 651. (Strojirenstvi. Vol. 7, no. 9, Sept. 1957. Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) IC. Vol. 7, no. 2,
February 1958

DOLEZAL, VL.; PROKES, J.; KACL, K.

A perfusion pump operating on the autopulsation principle. Acta
univ. carol. [med.] Suppl. 14:323-327 '61.

1. I. ustav pro chemii lekarskou a soudni fakulty vseobecneho lekarstvi
University Karlovy v Praze, prednosta prof. dr. K. Kacl.
(PERFUSION equip & supply) (IDENTIFICATION MEDICOLEGAL)

PROKES, Jaroslav

Auxiliary attachment to horizontal boring and milling machines.
Stroj vyr 9 no.7:341-346 '61.

1. Tovarny na obrabeci stroje, Varnsdorf.

KRAML, Jiri; PROKES, Jaroslav; KACL, Karel; PELICHOVA, Hana; FOIT, Richard, SIEBEROVA, Ruzena; KOLAR, Miroslav

Use of labelled insulin for detection of insulin antibodies. I.
Detection of insulin antibodies with electrophoresis in agar.
Vnitřní lek. II no.1:1-17 Ja '65

1. I. ustav pro chemii lékařskou a soudní FVL UK (prednosta
prof. dr. Karel Kacl, DrSc.); II. vnitřní klinika FDL UK
Fakultní nemocnice Pod Petrinem (prednosta: prof. dr. Richard
Foit, DrSc.) a Biofyzikální ustav FVL UK (prednosta - doc. dr.
Zdenek Dienstbier, DrSc.).

PROKES, J.

"Biochemical examination methods" by [RNDr.] Karel Slavik.
Reviewed by J.Prokes. Chem listy 57 no.9:996-997 S '63.

PROKES, J.

Responsibility for safety at work. p.20.
(Silnice, Vol. 6, No. 5, May 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 9, Sept. 1957. Uncl.

PROKES, J.

"Elements of general and biological chemistry" by John
R. Holm. Reviewed by J. Prokes. Chem listy 58 no.5:604-
605 My '64.

PROKES, J.

KACL, K.; PROKES, J.; VOREL, F.; AMCHOVA-PRAZAKOVA, E.

Effect of synthetic antidiabetics on the metabolism of liver glycogen.
Cas. lek. cesk. 97 no.6-7:217-220 14 Feb 58.

1. I ustav pro chemii lekarskou a Ustav pro chemii soudni, toxikologii
a mikroskopii KU Praha, prednosta prof. Karel Kacl.

(ANTIDIABETICS, eff.

on metab. of liver glycogen (Cz))

(LIVER, metab.

glycogen, eff. of antidiabetics (Cz))

(GLYCOGEN, metab.

liver, eff. of antidiabetics (Cz))

PROKES, J., and VOREL, F.

"Oscillopolarographic Study of Barbiturates," Chemicke Zvesti, Bratislava, No. 11-12, Nov-Dec, p. 818.

Laboratory of Toxicology and Forensic Chemistry, Faculty of General Medicine, Charles University, Prague.

PROKES, J
PROKES, Jaroslav; VOREL, Frantisek

Oscillopolarography of several substituted basic esters & amides (local anesthetics). Cas. lek. cesk. 97 no.6-7:226-228 14 Feb 58.

1. Laborator pro toxikologii a soudni chemii Karlovy university v Praze
prednosta: prof. Karel Kac1.

(ANESTHETICS, LOCAL, determ.
oscillopolarography (Cz))

KACK, Karel; PROKES, Jaroslav

Chromatography of insulin. Cas. lek. cesk. 94 no.45:1209-
1211 4 Nov 55.

1. I. ustav pro chemii lekářskou Karlovy university v Praze.
Prednosta prof. Dr. Karel Kacel.-Kontrolni ustav farmaceuticky.
Reditel Dr. F. Tomicek.

(CHROMATOGRAPHY,
of insulin.)

(INSULIN, determination,
chromatography.)

PROKES, JAROSLAV

✓ Morphological changes and growth inhibition of bacteria caused by auxinoids. Jaroslav Prokeš (I. ústav chem. lékařskou, Prague). ~~Casopis Lékařů Čechy~~ 93, 746-9 (1954).—Phenylacetic and 1-naphthylacetic acids caused morphological changes and changes in the growth rate of *Escherichia coli*, *Serratia marcescens*, *Proteus vulgaris*, and *Bacillus subtilis*. No effect was observed on *Micrococcus pyogenes* var. *aureus*. Morphological changes were similar to those caused by colchicine. Ivo M. Hala

PROKES, J.

Drawing schemes of hydraulic circuits. p. 24

STROJIRENSTVI (Ministerstvo tezkého strojírenství, Ministerstvo přesného strojírenství
a Ministerstvo automobilového průmyslu a zemědělských strojů)
Praha, Czechoslovakia
Vol. 9, no. 1, Jan 1959

Monthly list of East European Accessions (EEAI), LC, Vol. 8, no. 7
July 1959
U ncl.

PROKES, J.

Velocity of signal transmission in hydraulic circuits. p. 361.

AUTOMATIZACE. Praha, Czechoslovakia. Vol. 2, no. 12, Dec. 1959.

Monthly list of East European Accessions (EEAI) LC, Vol. 9, no. 2, Feb. 1960.

Uncl.

PROKES, J.; PALLO, V.

Physical and chemical studies on the oil fractions of crude petroleum. II.
Qualitative analysis of distillation components of domestic crude petroleum
and their chromatographic fractions. (To be contd.) p. 388,

CHEMICKÉ ZVESTI. (Journal on applied chemistry issued by the Slovak Academy of
Sciences and the Slovak Chemical Society. Monthly)
Bratislava, Czechoslovakia, Vol. 13, no. 7/8, July/Aug. 1959.

Monthly List of East European Accessions, (EEAI), LC, Vol. 8, no. 12, Dec. 1959.
Uncl.

PROKES, J.; PALLO, V.

Physical and chemical studies on the oil fractions of crude petroleum. IV.
A study on the electric properties of hydrocarbons from domestic crude
petroleum. p. 423.

CHEMICKÉ ZVĚSTI. (Journal on applied chemistry issued by the Slovak Academy of
Sciences and the Slovak Chemical Society. Monthly).
Bratislava, Czechoslovakia, Vol. 13, No. 7/8, July/ Aug., 1959.

Monthly List of East European Accessions, (EEAI), LC, Vol, 8, no. 12, Dec. 1959.
Uncl.

KRAML, J.; PROKES, J.; PELICHOVA, Hana; CEMELAR, M.; KRAL, K.

The immune phosphoric assay of insulin-¹²⁵I interaction
with human α_2 -macroglobulin in vitro. *Pratna* 9 no. 22 1961. M. 1961.

1. Inst. Department of Medical and Forensic Chemistry, Charles
University, Prague.

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PROKES, JAROSLAV

Chromatography of insulin. Karel Kácl and Jaroslav Prokeš (1. Ústav Chem. Lékařské, Prague). *Časopis lékařů českých* 94, 1200-11(1955).—Sepn. of insulin (I) from accompanying impurities by paper chromatography by using solns. of neutral salts for development is satisfactory. It is advantageous to use a mixt. of BuOH-H₂O and AcOH (3:4:1) equilibrated by 3-4 months' standing or by a soln. of 0.18 parts BuOAc. Whatman No. 1, 2, and 4 paper can be used. Descending development gives higher R_f values; ascending development was preferred for the simplicity of equipment. Bromophenol blue in MeOH satd. with HgCl₂ was used for detection; alk. elution of the dye, and photometry for quant. analysis; 30-40 microliters of a 2.4-3.0% soln. in 0.2N AcOH is applied on the paper, and development is started before complete drying. I, which gives a single zone (R_f 0.6-0.7) if absolutely pure, is usually accompanied by protein impurities remaining on the starting point. Further zones of R_f 0.1 and just following I are also observed in some samples. The method is applicable for routine control of I preps. and for the analysis of globulin-2a-I.

I. M. Hais

med 2

Prokes, Jaroslav

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Med
Chromatography of secretin. Karel Kácl and Jaroslav Prokš (1. ústav chem. lékařskou, Prague). *Časopis lékařů českých* 94, 1311(1955). Secretin prepn. is dissolved in 0.2N AcOH (20-30 mg./0.5 ml.), applied on paper (Whatman No. 3 or 4) as a 5 cm. long line, and developed in upward direction with a mixt. of n-BuOH, water, and AcOH (3:4:1). Bromophenol blue is used for the detection. Three to four bands are discernible. Identification of the spots remains uncertain in the absence of a pure standard. Denatured proteins remain on the line of application; secretin probably corresponds to a band *R*, 0.5. Quant. analysis is performed by alk. elution and photometry at 580 mμ. The method is claimed to be reliable, quick, and relatively accurate.
I. M. Hais

2

PROKES, Jaroslav

Prague, Czechoslovakia

"Bemerkungen zur Biochemie der blutzuckersenkenden Substanzen," by Karel KACL, Jaroslav PROKES, Frantisek VOREL und Eva Amchova-Prazakova, Institut fur Medizinische Chemie der Karls-Universitat in Prag (Vorstand: Prof. Dr. Karel Kacl).

SOURCE: Die Naturwissenschaften, 1 Sep 56, Unclassified.

PROKES, Jaroslav

Morphological changes and inhibition of bacterial growth by auxins. Cas.lek.cesk. 93 no.27:746-749 JI '54.

1. Z I. ustavu pro chemii lekarskou Karlovy university v Praze.
Prednosta: prof. Dr Karel Kaci.

(PLANT HORMONES, effects,

*auxins, on E. coli, morphol. changes & growth inhib.)

(ESCHERICHIA COLI, effect of drugs on,

*auxins, morphol. changes & growth inhib.)

PROKES, Jaroslav; MIKETUKOVA, Vera; KRAML, Jiri

Detection of a new peroral antidiabetic chlorpropamide (P-007)
in the blood serum.

1. Laborator pro toxikologii a soudni chemii a I. ustav pro chemii
lekarskou University Karlovy v Praze, prednosta prof.dr. Karel Kacel.
(ANTIDIABETICS blood)

CZECHOSLOVAKIA/Chemical Technology - Chemical Products and Their Applications - Corrosion. Corrosion Protection. H.

Abs Jour : Ref Zhur - Khimiya, No 11, 1958, 36591

Author : Pallo Viliam, Prokes Josef, Masek Vaclav

Inst : -

Title : Corrosion Caused by Bleaching Clay.

Orig Pub : Elcktrotechn. Obzor, 1957, 46, No 5, 245-247

Abstract : It was established that imported bentonite, used in Czechoslovakia, contains sulfur, which upon activation becomes free. This causes intense corrosion in the equipment used in petrochemical plants, and, during pulverization it contaminates some products, which upon contact with metals (especially with Cu) cause intense corrosion. The effect of S contamination of transformer oil on latter's stability and electrical insulating properties has been studied. A process permitting elimination of sulfur from bleaching clay without changing its properties has been worked out.

Card 1/1

6

PROKES, J

4E3d

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2-112

4E3d

Physicochemical study of petroleum fractions. II. Qualitative analysis of distillate fractions of domestic crude oils and their chromatographic fractions. V. Palo and J. Prokeš (Výskumný ústav kábelov a izolantov, Bratislava, Czech.). *Chem. zvesti* 13, 388-95 (1959) (German summary); cf. *C.A.* 53, 20769g. — Lubricating oil distillates of Gbely (Slovakia) crude oil and their chromatographic fractions were tested and the results of the n-d.-mol. wt. analysis (Nes and Westen, *C.A.* 45, 4437e) and the elementary analysis are given, together with values for the viscosity index. The fractions show the presence of aromatic-naphthenic structures which indicate a continuous transition from naphthenic to aromatic compds. with a viscosity index suitable for use in the cable industry. There is a greater no. of aromatic and naphthenic rings in the motor oil distillate than in the lighter distillate. III. Qualitative analysis by infrared spectroscopy. Alexander Tkáč (Slovenská vysoká škola tech., Bratislava, Czech.). *Ibid.* 396-422. — The correlation of the results of infrared spectroscopy and of the n-d.-mol. wt. method applied to distillates and their chromatographic fractions provided an indication of the presence of the following structural types in the mixt. of hydrocarbons: (1) monocyclic aromatic compds. with long alkyl substituents combined with naphthenic structures; (2) condensed aromatic structures with long alkyl side chains; (3) condensed monosubstituted structures with short alkyl side chains

and with uncondensed monosubstituted benzene rings. Chromatographic studies indicate that in hydrocarbon mixts. the sensitivity to oxidation is greatest for condensed structures and smallest for more highly substituted aromatic compds. and combined aromatic-naphthenic types. In chromatography, oxidized structures occur together with nonoxidized aromatic compds. The increased polarity of oxidized aromatic compds. induces the formation of ppts. which, after cleavage of the side chain, are pptd. from a nonpolar medium. IV. Electric properties of hydrocarbons from domestic crude oils. V. Palo and J. Prokeš (Výskumný ústav kábelov a izolantov, Bratislava, Czech.). *Ibid.* 423-9. — The elec. properties (loss angle, $\tan \delta$, dielec. const., and elec. resistance) of insulating oils were studied by testing chromatographic fractions of lubricating oil-distillates from Czech crude oils. The value of $\tan \delta$ increases exponentially with the concn. of aromatic C and it is a function of the amt. of conjugated double bonds. The kinetics of the changes of $\tan \delta$ at higher temp. in a pure paraffinic-naphthenic (I) sample differ basically from the kinetics of these changes in the sample contg. aromatic components (II). I shows an induction period whereas II shows a sudden increase of $\tan \delta$ immediately at the start of oxidation. The dependence of $\tan \delta$ on the dielec. const. is exponential in I; there is practically no relation with the dielec. const. in II.

Jan Mleku

Sm

CH

PROKES, Josef

Effect of liquid properties on hydraulic mechanism operation.
Ropa a uhlie 5 no.11:336-340 N°63.

1. Fakulta strojního inženýrství, České vysoké učení technické,
Praha.

PROKES, Jozef, inz.; MACKO, Ladislav, inz.; PALLO, Viliam, inz. CSc.

Influence of sulfurous substances on the gas properties of
electric insulation oils. El tech obzor 53 no. 1: 36-39
Ja '64.

1. Vyskumny ustav kablov a izolantov, Bratislava.

Prokes, Josef.

"Hydraulicke pohony; hydraulicke rizeni obratecich stroju a jeho vyuziti k automatisaci a k mechanisaci. [1. vyd.] (Kniznice Svazu zamestnancu strojirenstvi, sv. 54) [Hydraulic driving; hydraulic control of machine tools and its application in automation and mechanization. 1st ed. titl., diagrs., graphs, index, tables/

p. 275 (Praha, France, 1957)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 6, June 1958

PROKES, J.

"Speed control in hydraulic drives." p. 243.

STROJIRENSTVI. (Ministerstvo tezkého strojírenství, Ministerstvo
presného strojírenství a Ministerstvo automobilového průmyslu a
zemědělských strojů). Praha, Czechoslovakia, Vol. 9, No. 4, Apr. 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8,
August 1959.
Uncla.

CZECHOSLOVAKIA/Human and Animal Physiology - Internal Secretion. T
The Pancreas.

Abs Jour : Ref Zhur Biol., No 3, 1959, 13017

Author : Kacel, K., Prokes, J., Vorel, F., Anchova-Prazakova, E.

Inst : -

Title : Influence of Synthetic Antidiabetic Agents on Glycogen Metabolism in the Liver

Orig Pub : Casop. lekaru ceskych., 1958, 97, No 6-7, 217-220

Abstract : Mice weighing ~ 20 g were injected intraperitoneally with insulin, nadisan (BZ-55), artosin (D-860), and about 0.25 ml of a 40% glucose solution. The animals were sacrificed after 1½ - 2 hours, and the total glycogen (TG) and labile glycogen (LG) in the liver were determined. With injection of 25 mg/kg of BZ-55 or D-860 the amount of TG increased 30%, but LG decreased 30 - 40%. The amount of TG decreased 50% with injection of 750 mg/kg of BZ-55 and especially with injection of

Card 1/2

CZECHOSLOVAKIA/Human and Animal Physiology - Internal Secretion. T
The Pancreas.

Abs Jour : Ref Zhur Biol., No 3, 1959, 13017

D-860. The in vitro experiments indicated that D-860 and BZ-55, in doses exceeding therapeutic levels, suppressed glycogenolysis in the liver. -- V.V. Yazvikov

Card 2/2

- 76 -

7
V Physicochemical investigation of hydrocarbons from Czechoslovakian crude oils. Viliam Palo and Jozef Prokeš (Research Inst. Cables and Insulating Materials, Bratislava, Czech.). *Acta Chim. Acad. Sci. Hung.* 18, 215-29 (1959) (in German).—The phys. and chem. properties of Obely crude oil were studied. The hydrocarbons were sep'd. by chromatography, petr. ether being used as an eluent. The d., n, mol. wt., viscosity, viscosity index, elec. loss angle, dielec. const., insulation resistance, elemental and structural analysis, and infrared spectrum of the fractions were detd., and the results are given. The transition from the paraffinic-naphthenic fractions to the naphthenic-aromatic fractions is gradual and similar to that obtained by elution with C_6H_6 . The facts that the viscosity-temp. curve of the oil is steep and that the oil is easily sol. in rosin are advantageous for its use as cable oil. The relation between elec. properties and aromatic C content are expressed by the formula $\tan \delta = A e^{B\%C}$, where δ is the elec. loss angle and A and B are consts. depending on the compn. of the oil. A similar relation exists for the dielec. const. and the aromatic C content. Lab. aging tests at various temps. (up to 400°) and durations were conducted on a paraffinic-naphthenic fraction with and without addn. of 0% of an aromatic concentrate. After an induction period, the length of which depended on the test temp., the elec. loss angle increased in all cases but no significant increase below 100° was noted for the straight fraction. The blend with the concentrate showed an instantaneous increase at temps. above 100° without an induction period. The loss angle increase was found to be accompanied by a corresponding increase in the content of oxidation products. G. J. Krnyel.

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299 (NB)

4E2C(j)

4E3L

PROKES, J.

Strojirenstvi Vol 8, Nr 4, 1958, p 262-268

Distr: 4E2b

Prokes J. Some problems of ³hydraulic chucking devices.

Higher productivity of machining operations could be hardly secured without mechanical and automatic chucking devices. Pneumatic, electric and hydraulic systems are widely used, the latter having quite outstanding merits in extremely great chucking forces which can be easily applied, and in the versatility allowing simple coordination with automatic cycle of machine tools. Having explained basic requirements to be met by hydraulic systems, the author discusses computing methods for determining their parameters. Advantages and disadvantages of various circuit arrangements are compared and suggestions given, facilitating correct selection for any given work.

Card 1/1

Retyped clipped abstract

83

PROKES, K., inz.

Problem of disk brakes of hoisting machines. Strojirenstvi 13 no.6:
568-578 Ag '63.

1. Vysoka skola banska, Ostrava.

PROKES, Karel, inz.

Reconstruction of the 2 H 900 winding engine. Rudy 12
no.12:436-439 D '64.

1. Higher School of Mining, Ostrava.

HIKL, Jozef, inz.; PROKES, Kvetoslav, inz.

Operational control of the relation between the extraction and short preparatory works by means of the Z-nomogram in room-and-pillar caving in the North Bohemian lignite mines. Uhli 6 no.2:48-52 F '64.

1. Dul Vitezny unor, Zaluzi u Nostu.

HIKL, Jozef, inz.; PROKES, Kvetoslav, inz.

Use of bamboo timber for reinforcement of mine galleries in the
North Bohemian lignite mines. Uhli 5 no.1:15-18 Ja '63.

1. Dul Vitezny unor, Zaluzi u mostu.

BERNARD, Jaroslav, inz.; PROKES, Ladislav, inz.

Development and perspectives of condensating heating and power
plants in Czechoslovakia in terms of technical and economic indexes.
Energetika Cs 11 no.7:315-319 J1 '61.

Prokes, M. (Dr.)

5
Country: Czechoslovakia
Academic Degree: MD
Affiliations:
Employment: Usti nad Labem
Source: Prague, Průběhy v Oboroch a v Porodach Písemný, No 5, May 61, p 375
Date: Review of "Medical Statistics," by Dr K. CERNÝ, Dr J. BOUČEK, Dr L. HILGER,
and Dr M. POKOR, Prague, 1960. State Medical Publishing House (Státní zdravot-
ní nakladatelství).

070 11143

PROKES, RUDOLF

CA V-48
Jan 10, 1954
Organic Chemistry

Chem

~~Pyrazolone series. VI. Condensation of 1-guanyl-5-~~
~~pyrazolone with β -oxo esters. Alois Vystrčil and Rudolf~~
~~Prokes (Charles Univ., Prague, Czech.). Chem. Listy 49,~~
~~670-1 (1952); cf. C.A. 46, 7567e. $\text{H}_2\text{NC}(\text{:NH})\text{NHNH}_2$,~~
 ~~HNO_3 (I) (13.7 g.) in the min. amt. of H_2O and 13 g. Ac~~
 ~~$\text{CH}_2\text{CO}_2\text{Et}$ in EtOH gave, by salting out with K_2CO_3 after~~
~~48 hrs. 15 g. (70.5%) of 1-guanyl-3-methyl-5-pyrazolone ni-~~
~~trate (II), m. 234° (decompn.) (from EtOH). II (2.1 g.)~~
~~in 35 ml. EtOH refluxed 3 hrs. with 3 g. $\text{AcCH}_2\text{CO}_2\text{Et}$ in~~
~~100 ml. EtOH in the presence of 10 drops of AcOH and the~~
~~mixt. dild. with water deposited 2.5 g. (57%) CO_2CH_2 .~~

$\text{CMe:N.NC}(\text{:NH})\text{NHCR:CHCO}_2\text{Et}$ (III, R = Me), m.

180° (decompn.) (from dil. EtOH), also was obtained in a
44.5% yield (4.9 g.), m. 170° (decompn.), by refluxing 7
g. I carbonate with 15 g. $\text{AcCH}_2\text{CO}_2\text{Et}$ in 50 ml. EtOH.
Hydrolysis of III with HCl or dil. H_2SO_4 yielded the corre-
sponding salt; the sulfate m. 161° (from H_2O); picrate, m.
 184° (from H_2O). Condensation of 1.6 g. II in 60 ml.
EtOH with 2 g. $\text{BzCH}_2\text{CO}_2\text{Et}$ in the presence of 10 drops
AcOH yielded, after heating at 80° 6 hrs., 0.8 g. (32%) of
the compd. (IV) (III, R = Ph), m. 185° (from H_2O). 1-
Guanyl-3-phenyl-5-pyrazolone, prepd. in 70% yield, m. 102° .
M. Hudlický

1-28-54

PROKES, S

Slicing of spruce and beech slats; effect of various conditions of
slicing on the roughness of a wooden surface. p. 121.

DREVARSKY, VYSKUM, Bratislava, Czechoslovakia, Vol. 4, No. 1, June, 1959

Monthly list of East European Accessions (EEAI) LC, Vol, 8, No. 10
Oct, 1959
Uncl.

PROKES, S.

Cutting of slats. p.53.
(Drevarsky Vyskum, Vol. 2, No. 1, Apr. 1957, Bratislava, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 9, Sept. 1957. Uncl.

ZAJIC, Fr., Dr.; KRIVINKA, R., Doc., dr.; POSPISIL, J., dr.;
PROKES, S., rtg. lab.

Stratigraphy and roentgenologic stereography in diagnosis of
pulmonary diseases. Cas. lek. cesk. 91 no.22:651-658 30 May 52.

1. Z Ustavu pro klinickou fyziologii (prednosta prof. dr.
J. Skladal), z II. plicniho oddeleni stat. obl nemocnice na
Bulovce (prednosta doc. R. Krivinka) a z prosektury stat. oblast.
nemocnice na Bulovce (prednosta prof. dr. V. Jedlicka).

(LUNGS, radiography,
stereography & stratigraphy)
(TUBERCULOSIS, PULMONARY, diagnosis,
x-ray, stereography & stratigraphy)

PROKES, Stanislav

Selection of materials for milling tools. Drevarsky vyzkum no.2:
73-84 '64.

1. Research and Development Institute of Wood, Prague.

PROKOP, Stanislav, Ing.

Possibilities of improving the service life of milling tool
cutting edges. Czech 17 no.8:25A-27A Aug '64

1. Research and Testing Institute of Wood, Prague.

PROKES, Stanislav, inz.

Research on machining of wood and new materials. Drevo 18
no.1:10-11 Ja '63.

1. Vyzkumny a vyvojovy ustav drevarsky, Praha.

PROKES, Stanislav

Effect of the geometry of a milling tool on its service life.

Drevarsky vyskum no.3:157-168 '64.

1. Research and Development Institute of Wood, Prague.

PROKES, Stanislav, inz.

Standards of cuttings for milling. Dřevo 19 no.3:99-102
Mr '64

1. Research and Development Institute of Wood Industry,
Prague.

PROKES, V. ~~Dr.~~

CAHA, A., Dr.; PROKES, V. Dr.

New methods of determining the course of isodose curves in the region of Ra applicators and the relative composition of doses in the angle of incidence in radiotherapy. Cesk. rentg. 11 no.3:190-196 Aug 57.

1. Onkologický ústav, Brno-Zluty kopec, reditel doc. Dr. Sprindrich
Fyzikální ústav přírodovědecké fakulty MU, Brno.

(RADIOTHERAPY,

dosimetry, quantitative determ. of dosage composition (Cx))

(RADIUM, ther. use

dosimetry, determ. of isodose curves (Cx))

GAHA, A.; PROKES, V.

Gammagraph for medical use. Cesk. rentgen. 18 no.4:271-273
Jl '64

1. Onkologicky ustav v Brne (reditel: MUDr. D.Kadlecova, CSc.)
Katedra elektroniky a vakuove fyziky prirodovedecke fakulty
UJEP [University J.E.Purkyne) v Brne (vedouci: doc. dr.
V.Trunccek).

CAHA, A.; PROKES, V.

Gamma graph for medical use. Cesk. rentgen. 18 no.4:271-273
Jl'64

1. Onkologicky ustav v Brne (reditel: MUDr. D.Kadlecova, CSc.)
Katedra elektroniky a vakuove fyziky prirodovedecke fakulty
UJEP [University J.E.Purkyne] v Brne (vedouci: doc. dr.
V.Trunccek).

CAHA, A.; PROKES, V.

Gamma graph for medical use. Cesk. rentgen. 18 no.4:271-273
Jl'64

1. Onkologicky ustav v Brne (reditel: MUDr. D.Kadlecova, CSc.)
Katedra elektroniky a vakuove fyziky prirodovedecke fakulty
UJEP [University J.E.Purkyne) v Brne (vedouci: doc. dr.
V.Trunccek).

GAHA, A., Dr.; PROKES, V., Dr.; KALLUSCH, K.

Gamma graph for medical use; preliminary report. Cesk. rentg. 11 no.3:
197-200 Aug 57.

1. Onkologický ústav v Brně, red doc. Dr. J. Sprindrich. Fyzikální ústav
přirodovědecké fakulty MU v Brně První Brněnské strojířny, Z, KG.

(GAMMA RAYS,

gamma radiography, appar. (Cz))

PROKES, V.

Halek, V.; Rybníkar, J. , Electric analogy in the hydrodynamics of ground water flowing under the foundations of buildings. p. 342.

VODNI HOSPODARSTVI. Vol. 4, no. 11, Nov. 1954.

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 5, No. 6, June 1956 Uncl.

PROKES, V.

Halek, V.; Rybníkar, J. Electric analogy in the hydrodynamics of ground water flowing under the foundations of buildings. p. 342. VODNI HOSPODARSTVI, Prague, Vol. 4, no. 11, Nov. 1954.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 6, June 1956, Uncl.

PROKES, V.

Pallo, V. Investigation of gas properties of impregnating materials. p. 90.
ELEKTROTECHNICKY OBRZOR, Prague, Vol. 45, no. 2, Feb. 1956.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, no. 6, June 1956,
Uncl.

GAHA, Archimiro, MUDr, RNDr; PROKES, V., RNDr; DADOK, J., ing.

Scintillation intensimeter and example of its use in the determination of isodosic curve of radium applicators. Cesk.rentg. 9 no.3:89-94 Aug 55.

1. Onkologicky ustav Brno, Fysikalni ustav Vys.skoly stavitelstvi, Brno, Vyrojove dilny CSAV, Brno

(RADIUM, dosage,

scintillation intensimeter in determ. of isodosic curve of radium applicators)

SCHOBER, B.; PROKES, V.

Supporting films of carbon for use in electron microscopy. Fol.biol.,
Praha 1 no.5:316-318 Oct 55.

1. Institute of Medical Physics, Medical Faculty of the Palacky
University, Olomouc Institute of Physics, University School of
Architecture, Brno.

(MICROSCOPY, ELECTRON,
supporting films of carbon in)